

駐印度代表處經濟組 函

受文者：經濟部標準檢驗局

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速別：普通件

密等及解密條件或保密期限：

附件：如文(附件一 竺經1120006145_Attach1.pdf、附件二 竺經1120006145_Attach2.pdf)

主旨：有關印商Pavone Technologies拜會本組事，請查照。

說明：

一、本組於本(10)月12日接見印商Pavone Technologies創辦人 Abhinav Sharma，就該公司提供之認證服務及印度電子業發展進行交流。要點如次：

- (一)S創辦人表示渠曾在電子資訊科技部(MeitY)擔任顧問，另曾參與2018年聯發科公司主辦之手機設計人才培訓班赴臺參加6週訓練課程。去(2022)年亦參與臺印度首屆CEO論壇。本年6月亦赴臺參觀台北電腦展，熟悉我國之電子及資通訊業發展情形，盼協助我業者進入印度市場。
- (二)該公司採一站式服務，主要業務包括協助業者取得印度強制檢驗產品之驗證，包括 TEC-MTCTE (註：印度電信網絡的 IT/電信設備驗證)、BIS CRS (註：印度標準檢驗局標準)、WPC ETA (註：無線設備驗證)等。另亦提供資訊安全相關測試，如網站、網路應用、ISO 27001、和數據保護。



二、陳組長表示，印度法規繁瑣，修改頻率高，若有熟悉相關法令及申請程序之公司提供我商相關服務，將有助改善申請時程。另本組詢及該公司與在印度臺商、在臺廠商之互動及網通產品進行強制檢驗相關規定。S創辦人表示已協助華碩申請驗證300多項產品，另刻正協助我商杏澤科技股(SyncVision)與印商Pedfolk就產品代理及在印通路進行洽談。至第3階段及第4階段網通產品原定本年7月實施強制檢驗事，印度電信工程中心 (Telecommunication Engineering Centre, TEC) 和印度電信部 (Department of Telecommunications, DOT) 已於9月27日公告計有32項產品延後至2024年1月實施。

三、檢附該公司簡介及印度電信部公告(如附件)，報請鈞察。

正本：經濟部國際貿易署、經濟部標準檢驗局

副本：112/10/16
20:40:40

Government of India
Department of Telecommunications
Telecommunication Engineering Centre
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110001.

F No. 5-2/2021-TC/TEC/172

Dated at New Delhi: 27.09.2023

Amendment Notification

Subject: Extension of mandatory certification date for 32 products (ERs) covered under phase-III & IV of MTCTE from 01.10.2023 to 01.01.2024- reg.


In partial modification to this office Notification no. 5-2/2021-TC/TEC/164 dated 23.06.2023 w.r.t. the testing & certification of telecommunication equipment under Phase-III & Phase-IV of Mandatory Testing & Certification of Telecommunication Equipment (MTCTE) regime, as provisioned in Indian Telegraph (Amendment) Rules, 2017, the following amendment is hereby notified with immediate effect as mentioned below:

- i. Extension of date of mandatory certification of 32 products (ERs) covered under MTCTE Phase-III & Phase-IV by three months i.e. 01.10.2023 to 01.01.2024. The list of 32 products is placed at Annexure-I.

Further, all other terms & conditions including mandatory date of other 12 products, details etc. mentioned in said notification dated 23.06.2023 shall remain unchanged.

This issues with the approval of Competent Authority.

Enclosure: As Above


27/09/2023
Avadhesh Singh

Director (TC-1)

Email ID: dirta.tec@gov.in

Copy to (through email):

- i) PS to Hon'ble MoC, DoT-HQ, New Delhi
- ii) PS to Hon'ble MoSC, DoT-HQ, New Delhi
- iii) PPS to Secretary (Telecom), DoT-HQ, New Delhi

- iv) PPS to Member (S)/Member (T)/Member(F)/DG(Telecom), DoT-HQ,
New Delhi
- v) Advisor, TEC, New Delhi
- vi) Sr. DDG, TEC, New Delhi
- vii) Sr.DDG, NCCS Bangalore
- viii) CEO, C-DoT
- ix) JS (Customs), CBIC -for information & n/a please.
- x) AD(IT)/AD(TC), TEC for uploading on TEC/MTCTE website
- xi) Office copy

M. V. S. S.
27/09/2023

Annexure-I

List of 32 products (ERs) under phase-III & Phase-IV of MTCTE with mandatory certification date as 01.01.2024

S No	ER/Product	Notified in Phase
1.	Equipments Operating in 2.4 GHz and 5 GHz Band	Phase-3
2.	IoT (Internet of Things) Gateway	Phase-3
3.	Tracking Device	Phase-3
4.	Smart Electricity Meter	Phase-3
5.	End Point Device for Environmental Monitoring	Phase-3
6.	DSL(Digital Subscriber Line) Equipments	Phase-4
7.	Signalling Gateway	Phase-4
8.	Session Border Controller	Phase-4
9.	Softswitch	Phase-4
10.	Media Gateway	Phase-4
11.	Precision Timing Protocol Grand Master Equipment	Phase-4
12.	LAN (Local Area Network) Switch	Phase-4
13.	Router	Phase-4
14.	Infiniband Switch	Phase-4
15.	IP Multimedia Conferencing Equipment	Phase-4
16.	IP Security Equipment	Phase-4
17.	Conferencing Equipment	Phase-4
18.	Transmission Terminal Equipment-2 (DWDM, Digital Cross Connect)	Phase-4
19.	Mobile Management Entity (MME)	Phase-4
20.	Serving GPRS Support Node (SGSN) / Gateway GPRS Support Node (GGSN)	Phase-4
21.	Base Station Control (BSC)/ Radio Network Controller (RNC)	Phase-4
22.	Cell Broadcast Centre (CBC)	Phase-4
23.	Gateway Mobile Location Centre (GMLC)	Phase-4
24.	Home Location Register (HLR)/ Authentication Centre (AUC)/ Home Subscriber Server (HSS)	Phase-4
25.	Mobile Switching Centre (MSC) / MSC-Server (MSC-S) / Gateway MSC (GMSC) / Gateway MSC-Server (GMSC-S) including Visitor Location Register (VLR)	Phase-4
26.	OTA and DM or FOTA	Phase-4
27.	Service Control Point (SCP)	Phase-4
28.	Operations and Maintenance Center (OMC) / Element Management Systems (EMS) / Network Management Systems (NMS) / Operations Support System (OSS)	Phase-4
29.	Serving Gateway (S-GW) / Packet Data Network Gateway (P-GW)	Phase-4
30.	Short Message Service Center (SMSC)	Phase-4
31.	Serving Mobile Location Center (SMLC)/ eSMLC	Phase-4
32.	Equipment Identity Register (EIR)	Phase-4

27/09/2023



Indian Approvals Made Easy!



PAVONE TECHNOLOGIES
One-stop solution for all your certification needs

**Abhinav Sharma (E-MAIL:
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9999421992)
Founder, PAVONE Technologies**



Agenda

- ▶ **PAVONE Technologies Profile**
- ▶ **Overview of IT/Telecom products mandatory schemes – TEC-MTCTE, BIS CRS, WPC ETA, OneM2M, CoA, IoT Approvals & Global Approvals**
- ▶ **Security Testing & Certification**
- ▶ **Website, web app, ISO 27001, GDPR, Data protection**
- ▶ **Recent Regulatory Activity**
- ▶ **Upcoming Changes and trends**



Who are we ?

- ▶ Industry leading solution for India Market Access
- ▶ Technical Expertise
- ▶ Specialist for RF/ EMC/ Safety/ Automotive / Energy Efficiency etc.
- ▶ One Stop shop offering with partner test houses
- ▶ Direct Solutions with Indian & Global Regulators



Why Choose us ?

- ▶ We define clear compliance roadmap
- ▶ Enabling India Market Access for Global Brands/OEM's
- ▶ We stay within the budget
- ▶ Best lead time among the Indian agencies
- ▶ Guaranteed replies to E-mails within 30 minutes
- ▶ Certificate Renewals management
- ▶ One Stop for all Testing & Certification
- ▶ Treat us like India helpdesk!

TEC-MT&CTE (Mandatory Testing & Certification of Telecom Equipment's)





Objective

- ▶ The Indian Telegraph (Amendment) Rules, 2017, states that every IT/Telecom equipment capable of connecting to the Indian telecom network must undergo mandatory testing and certification prior to sale, import or use in India
- ▶ To bring and equip the country with the major quality product used in the Telecom/IT sector and must meet the desired standards. The testing is to be carried out for conformance to Essential Requirements for the equipment, by Indian Accredited Labs designated by TEC and based upon their test reports, certificate shall be issued by TEC
- ▶ Security of Network
- ▶ Non-degradation of performance of existing network when connected
- ▶ Protection by ensuring radio frequency emissions within prescribed limits



Essential Requirements

Total of 67 Essential Requirements available on the MTCTE portal is final for almost all the products covered by TEC.

OEM's needs to follow the single Annexure available on the MTCTE portal for referencing to all the ER's.

MAJOR Testing involves for all commonly used products:

- ▶ EMI/EMC
- ▶ Safety (We can submit BIS report, if available)
- ▶ Technical Requirements -TR
- ▶ Wireless – RF
- ▶ OTHERs
- ▶ Interface tests

Mandatory dates

Phase wise	Mandatory date	Products Covered
Phase 1	1.10.2019	2-wire Telephone Equipment, Modems, G3 Fax Machines, Cordless Telephones, ISDN CPE, PABX
Phase 2	1.10.2020	Feedback Devices, PON family of broadband Equipment's, Transmission Terminal Equipment
Phase 3 & 4	To be mandatory from 01.01.2024	List is annexed in other slides



Two types of Certification Scheme

- ▶ **Simplified Certification Scheme:** Applicant has to submit the test reports issued from accredited test labs.
- ▶ For the purpose of compliance with Essential Requirements, the equipment must have undergone testing at any designated CAB or recognized CAB of MRA Partner country. Or for the interim any lab accredited by accreditation bodies under ILAC
- ▶ Normally, certificate will be issued on the basis of submitted test reports.
- ▶ Certificate issuance within 15 Days after application submission

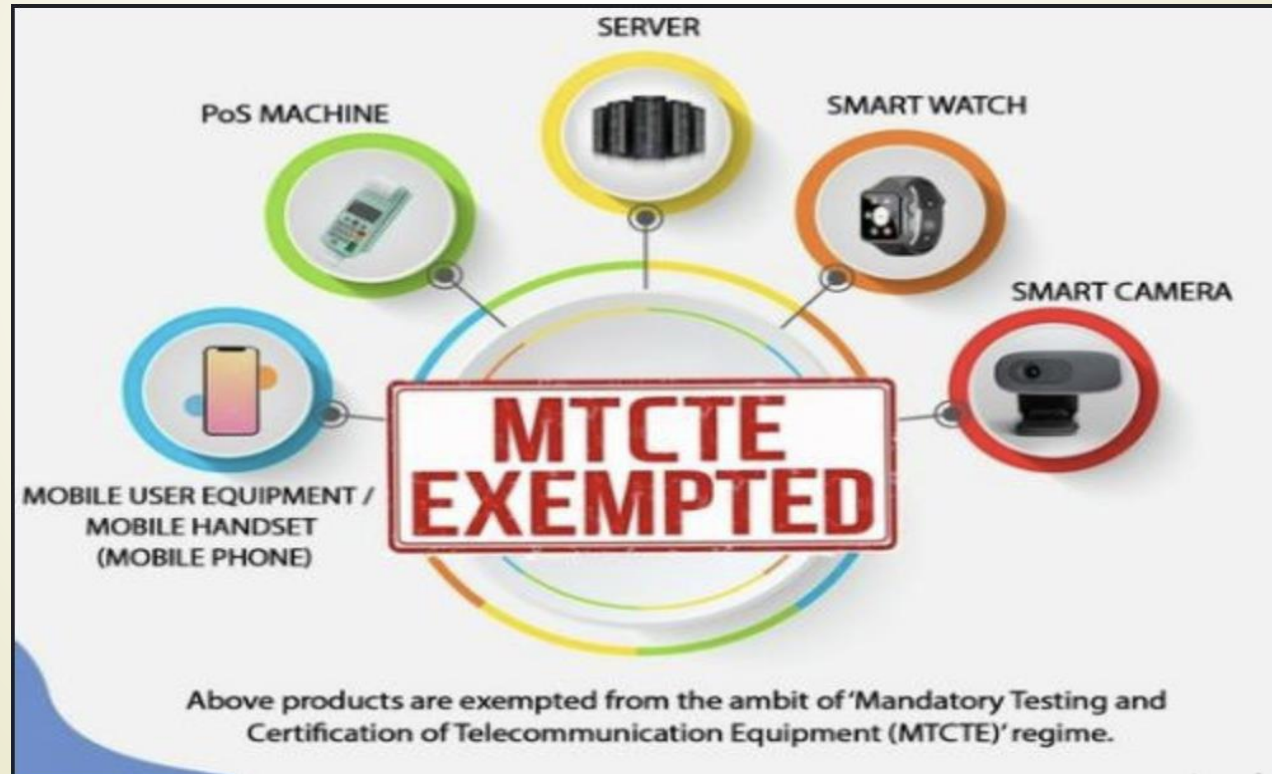


Two types of Certification Scheme

- ▶ **General Certification Scheme:** Applicant has to submit all the test reports and documents.
- ▶ Certificate will be issued in 5-6 Weeks depending on the complexity of the product and work load at TEC. There are four Regional TEC Offices which will be reviewing the applications.

Product Exempted from MTCTE

- Exemption has been given to following products mentioned below from the ambit of Mandatory Testing and Certification of Telecommunication Equipment (MTCTE) regime due to overlapping of same products in BIS CRS Scheme.



MT&CTE ComSec Security Testing

- ▶ **Regulatory body: NCCS (National Center for communication security)**
- ▶ **Standards are called as ITSAR's**
- ▶ **Products mandatory from 1.07.2023: WiFi CPE & IP Router**
- ▶ **Start date of acceptance of applications with security parameter: 1.07.2023**
- ▶ **OEM's /Applicant's those who are awarded with MTCTE Certificate needs to apply for integrated certificate using "Certificate Modification Option"**
- ▶ **TSTL's (Security Test lab) will test the products as per ITSAR's (Security Standards)**
- ▶ **Security test reports will be submitted in MTCTE portal only**
- ▶ **Approx. Cost for WiFi CPE: 50KUSD+**
- ▶ **Sample setup:** Sample had to be configured in Indian lab setup as per lab guidance initially. Later, we can manage at our side.
- ▶ **NDA :** NDA has to be as we have to do source code review analysis & testing. OEM has to provide Source code to the lab , so NDA is required and must.
- ▶ **Documents required to test and provide Evidence:**
 - a. Software and Hardware functional specs
 - b. Design documents
 - c. Hardware schematics
 - d. User manuals
 - e. BOM
 - f. Version control

S.No.	ER No.	Group	Name of the ER	Variants associated with ER
1	TEC 1266418	A(SCS)	Conferencing Equipment	a. Audio Conferencing facility device b. Multiline telephone system
2	TEC 1267418	A(GCS)	Cordless Telephone	a. Cordless Telephone
3	TEC 1283418	B(GCS)	Conferencing & Presentation Equipment	a. Video Conferencing Equipment
4	TEC 1329418	A(SCS)	G3 Fax machine	a. FAX MACHINE WITH HANDSET b. FAX MACHINE WITHOUT HANDSET
5	TEC 1663418	A(SCS)	Modem	a. V.90/V92/V21 to V34 modem
6	TEC 1767418	A (GCS)	Point of sale devices	a. Point of sale terminal
7	TEC 1835418	A (SCS)	2-wire telephone equipment	a. 2-wire Telephone instrument and equipment's b. Key telephone systems
8	TEC 2323418	B (GCS)	Feedback device	a. Feedback Device
9	TEC 2373418	B (GCS)	End Point device for environmental monitoring	a. End point device for Environmental Monitoring
10	TEC 2449418	B (GCS)	IoT Gateway	a. IoT Gateway
11	TEC 2836418	B (GCS)	Smart Electricity Meter	a. Smart Electricity Meter
12	TEC 2873418	B (GCS)	Tracking Device	a. Vehicle Tracking Device b. Asset Tracking Device c. Pet Tracking device d. Human Tracking device
13	TEC 2882418	B (GCS)	Smart Camera	a. Smart security camera
14	TEC 2898418	B (GCS)	Smart Watch	a. SMART WATCH
15	TEC 4227418	C (GCS)	Compact Cellular Network	a. BTS CCN b. NodeB CCN c. eNodeB CCN
16	TEC 4272418	C (GCS)	Base Station for Cellular Network	a. BTS FOR GSM b. NODEb FOR WCDMA c. eNodeB for LTE d. BTS with MSR e. BTS with AAS
17	TEC 4772418	C (GCS)	Mobile Handset	a. Mobile Handset b. Mobile data card or dongle
18	TEC 4778418	C (GCS)	Repeater for Cellular Network	a. GSM Repeater b. WCDMA Repeater c. LTE Repeater
19	TEC 5437418	C (GCS)	HF Radio	a. HF Mobile Stations b. HF handheld portable stations c. HF baseband equipment without radio d. HF Base Station – baseband plus radio
20	TEC 5678418	C (GCS)	Mobile Radio Trunking System	a. MRTS Mobile station

20	TEC 5678418	C (GCS)	Mobile Radio Trunking System	<ul style="list-style-type: none"> a. MRTS Mobile station b. MRTS handheld portable station c. MRTS baseband equipment without radio d. MRTS BASE STATION – Radio only e. MRTS base station – Baseband plus Radio
21	TEC 5728418	C (GCS)	Satellite Communication Equipments	<ul style="list-style-type: none"> a. Satellite Radio Freq. Transceiver b. VSAT Terminals c. Satellite baseband modems d. Satellite baseband modem controller e. Satellite amplifier f. Satellite LNA g. Satellite LNB h. Satellite BUC i. Satellite optimisation equipment j. Satellite IF Transceiver k. Satellite Baseband mod/demod/controller
22	TEC 5843418	C (GCS)	VHF UHF radio system equipments	<ul style="list-style-type: none"> a. UHF VHF MOBILE STATIONS b. UHF VHF HANDHELD PORTABLE STATIONS c. UHF VHF BASEBAND EQUIPMENT WITHOUT RADIO d. UHF VHF base station- Baseband Plus Radio e. UHF VHF base station- Radio Only f. Land Mobile Radios
23	TEC 6473418	A (SCS)	ISDN Customer Premises Equipment	<ul style="list-style-type: none"> a. ISDN Terminal b. PC card based ISDN Terminal c. ISDN NT-1 Network Terminal d. Multipoint conferencing server e. ISDN Terminal adapter f. ISDN Gateway
24	TEC 6649418	C (GCS)	Media Gateway	<ul style="list-style-type: none"> a. Media Gateway b. Line Media Gateway c. Media Gateway for CPE
25	TEC 6722418	C (GCS)	Session border controller	<ul style="list-style-type: none"> a. Session border controller
26	TEC 6729418	B (GCS)	Private Automatic branch exchange	<ul style="list-style-type: none"> a. Private Automatic branch exchange

27	TEC 7628418	B (GCS)	Media Converter	a. Media Converter equipment for conversion amongst EI, Wi-Fi, xDSL, Ethernet and Digital Interface over 2 wire.
28	TEC 7883418	C (GCS)	Transmission terminal equipment	a. TRANSMISSION TERMINAL equipment including Multiplexer, PDH,SDH,DWDM,OTN,DXC
29	TEC 1375418	B (GCS)	DSL Equipments	a. DSL NT MODEM b. DSLAM COT c. OMSAN
30	TEC 5943418	B (GCS)	EQUIPMENTS OPERATING IN 2.4 GHz & 5 GHz	a. Wi-Fi Access point and CPE b. WLAN controller Equipment c. PTP PMP WIRELESS ACCESS EQUIPMENT 2.4GHz or 5GHz
31	TEC 1476418	B (GCS)	GPON EQUIPMENTS	a. PON ONT b. PON ONU c. PON OLT
32	TEC 6747418	B (GCS)	IP TERMINAL	a. SIP TERMINAL
33	TEC 5642418	C (GCS)	PTP PMP MICROWAVE FIXED RADIO SYSTEMS	a. PTP/PMP full outdoor microwave systems b. PTP/PMP split MW outdoor unit c. PTP/PMP split MW Indoor Unit
34	TEC 3768418	C (GCS)	ROUTER	a. IPv4 b. IPv6 c. MPLS
35	TEC 6749418	C (GCS)	SIGNALLING GATEWAY	a. SIGNALLING GATEWAY
36	TEC 6779418	C (GCS)	SOFT SWITCH	a. SOFT SWITCH
37	TEC 3794418	C (GCS)	LAN SWITCH	a. L2 LAN SWITCH b. L3 LAN SWITCH



WPC (Wireless Planning & Co-ordination)





Objective

WIRELESS PLANNING & COORDINATION (WPC) Wing of the Ministry of Communications, created in 1952, is the National Radio Regulatory Authority responsible for,

- ▶ Frequency Spectrum Management
- ▶ Licensing
- ▶ Issues licenses to establish, maintain and operate wireless stations

Two Certification Schemes:

- ▶ Network Licensing
- ▶ Equipment Type Approval

WPC-ETA SDoC

- ▶ WPC ETA certificate is applicable to the products which is operating in de-licensed band and such products doesn't need license from the regulatory body, for them ETA is required. On behalf of ETA certificate we can apply for Import Permission
- ▶ WPC-ETA for Wi-Fi, Bluetooth, RFID, NFC, Wireless Chargers etc.
- ▶ Single certificate will cover all the frequencies like 2.4GHz & 5GHz
- ▶ No provision for Multiple models in single ETA SDoC certificate
- ▶ Frequencies Covered : 2.4 GHz to 2.4835 GHz, 5150-5250, 5250-5350, 5470-5725, 5725-5850, 2402-2480, 865 - 868 MHz, 335 MHz, 433MHz, 26.957 - 27.383 MHz, 119-135 KHz, 135-140 KHz, 140-148.5 KHz, 148 – 200 KHz
- ▶ WPC-ETA certificate has no expiry and doesn't need any label on product
- ▶ CE & FCC test reports need to be submitted for verification by the officer
- ▶ Radio module reports can be used to obtain HOST/System approval

WPC ETA guideline

ETA SDoC rules	
Applicant	Must be local registered company/brand owner office
Validity	Lifetime
Lead time	5 days – 1 week
Local testing	Required only if ILAC reports are not available
Labelling	No provision of WPC Label
Modules report submission for Host approval	Allowed



IoT OneM2M Approval & Registration

Project Query Transmission Model



OneM2M registration & Approval

- ▶ **Registration of M2M Service Providers(M2MSP) & WPAN/WLAN Connectivity Providers for M2M Services**
- ▶ **OneM2M based product approval and registration**



BIS (Bureau of Indian Standards)
CRS (Compulsory Registration Scheme)
Mandatory In-Country Testing by BIS labs

Salient Features of BIS CRS scheme

- Authority: Ministry of Electronics & IT (MeitY) + Bureau of Indian Standards
- Mandatory for all types of telecom equipment- ADPM/Mobile Phones/smart watch/smart IP camera, Batteries, cells, TWS, Wireless keyboards, Printer etc..
- Regulate (CRO – Compulsory Registration order): will be issued by MeitY and surveillance mechanism
 - Safety
- Reports should be issued by BIS accredited lab
- 75 products covered under BIS CRS scheme

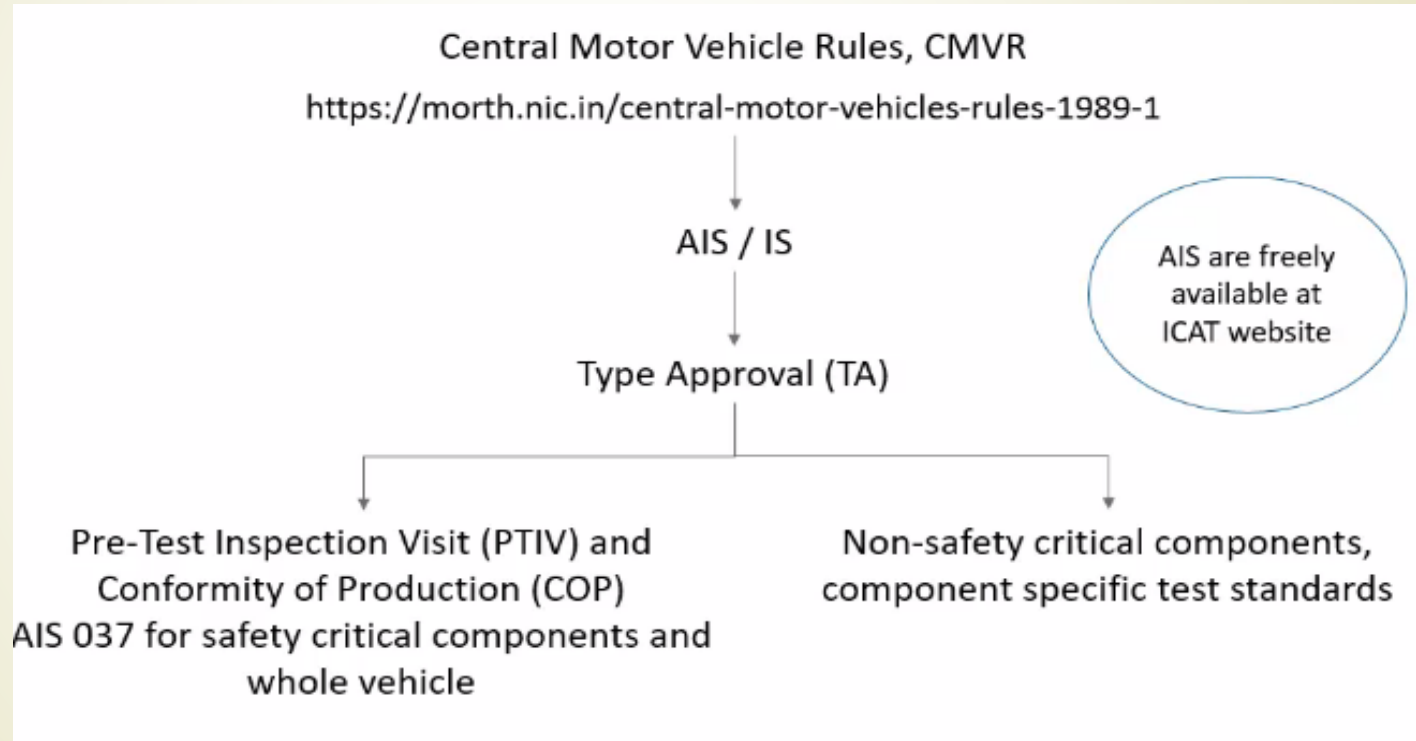
BIS CRS Scheme

	Fresh Application	Inclusion application
BIS reviewing time	5 weeks	3 weeks
Local representative	Required, could be local manufacturer/ local importer or Authorized Indian representative on behalf of foreign manufacturer	
Validity	2 years	
Renewal	Applicable, need to apply 3 months before for 2-5 years	
Labelling requirement	•Applicable as per Standard Marking requirements with BIS CRS logo and standard number	



AIS (Automotive Indian Standards) Indirectly Mandatory!

Central Motor Vehicle Rules CMVR





Testing Agencies in India for AIS

- ▶ **ICAT – International Center for Automotive Technology, Manesar (NORTH INDIA)**
- ▶ **ARAI – Automotive Research Association of India, Pune (West India)**
- ▶ **GARC- Global Automotive Research Centre, Tamilnadu (South India)**

Major AIS Standards

Standard	Description	Key Points
AIS-001	Rear-View Mirrors – Specification	
AIS-8, 9, 10, 12	Lighting and Light Signalling system	Bumper to bumper
AIS-17	Type Approval and Certification of Vehicles for Compliance to Central Motor Vehicles Rules	Procedures
AIS-18	Speed Limitation Devices	Specifications
AIS-37	Type Approval and Establishing Conformity of Production for Safety Critical Components	Procedures (including factory inspection)
AIS-38	Battery Operated Vehicles	Construction & Functional Safety
AIS-140	Intelligent Transportation Systems (ITS)	Vehicle Tracking, Public Transport & NP Exception – off-road vehicles
AIS-004	EMI/EMC	For all vehicles and sub-assemblies
AIS-138	Electric Vehicle Conductive AC/DC Charging System	All types EV charging systems <1000V
AIS-53	Automotive Vehicles	Types & Terminology
AIS-76	Vehicle Alarm Systems	M1 & N1 Category of Vehicles
AIS-102, 123	Type Approval for Hybrid Vehicles	102 (new vehicle) & 123 (retrofitted)

Major AIS Standards vs European ECE/EEC Standards

Test	Indian Standard/rule	Corresponding ECE/EEC	Remarks
Traction Batteries	AIS 048	R 100	
Horn	IS 1884	R 28	
Motor and Controller	AIS 041	R 84 & 85	
EMC on sub-assemblies	AIS 004 (III)	R 10.04	AIS 004-3 Rev 1.0 equivalent to ECE R 10.05 is in draft stage
Vehicle Alarm Systems and Immobilizer Units	AIS 076	R 116	If fitted
Vehicle Tracking Device	IS 16833/AIS 140	--	If fitted
Multiplexing nodes for EV Buses	AIS 153	--	
Speed Limiting Devices	AIS 018	R 89	
LED Destination Boards	IS 16490	--	
Wiring Harness and Fuses	AIS 026/ 028	--	



AIS Standard for EV Charging Stations

- ▶ For EV Charging stations, AIS 138/IS 17017 is the standard, but it has not been notified yet.
- ▶ For participating in tenders for purchase of charging stations, testing as per AIS 138/ IS 17017 is mostly part of the technical requirements. Therefore, it is recommended to get the tests done
- ▶ It consist of EMC, Environmental, Mechanical and safety tests.

Other Mandatory Approvals

- ▶ **CDSCO (Medical Devices) & ISO 13485 as per Medical Device rules**
- ▶ **Bureau of Energy Efficiency BEE – Star Labelling Scheme**
- ▶ **E-waste (EPR certification)**
- ▶ **Drone Registration & Testing**
- ▶ **Defense related Testing & Certification as per government tender specific requirements**
- ▶ **PV Solar inverter, PV Cells & Modules Testing & Certifications**
- ▶ **Electric vehicle, Automotive related Testing & Certifications**
- ▶ **GDPR, ISO 27001, Digital Personal Data Protection Act**
- ▶ **Website & web app Testing & Certifications as per Indian & global requirements**



Global Approvals

- ▶ CE (Europe), FCC (USA), G20 countries etc.
- ▶ We cover almost entire world in case of "Testing & Certifications" for IT/Telecom Equipment

Other Services

- ▶ **Design Services (Prototype to Product) with the help of design houses**
- ▶ **Mass Production through Global OEM's and design houses**
- ▶ **Sample sourcing from Taiwan & Korea based on the specific requirements**
- ▶ **Component Sourcing**
- ▶ **PCB Fabrication**
- ▶ **Radio Module related guidance for Smart world products**
- ▶ **Website & App development for startups and other companies**
- ▶ **Liasoning for special projects with the Ministries of India for ex: upgradation of SCL fab in India, PCB plant setup in India**



INDIA-TAIWAN Startup Bridge

- ▶ **Top-class Software Talent Pool available in India**
- ▶ **Taiwan is world's best in Hardware manufacturing**
- ▶ **Collaboration of INDIA-TAIWAN startups will result in the world's best products**
- ▶ **Technology & Knowledge Transfers**
- ▶ **Professionals exchange programme**

PLI Scheme

- ▶ **We support OEM's & Manufacturers with knowledge about PLI to prepare and submit the application to Ministry for scrutiny purpose**
- ▶ **PLI Scheme's aim is to develop the ecosystem of manufacturing in the country**
- ▶ **Support for domain specific manufacturing Clusters in India**
- ▶ **We work closely with Invest India Team and help to expedite the process**
- ▶ **We request all the OEM's of Notebook PC, Tablets like Asus, MSI, Acer to start manufacturing in the country**



Language Support

- ▶ **We aim provide Mandarin speaking Indian professionals to Taiwanese companies looking to invest and have presence for the long time in Indian Market**